

SOLICITATION/CONTRACT BIDDER/OFFEROR TO COMPLETE BLOCKS 11, 13, 15, 21, 22, & 27		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING		PAGE 1 OF 40 PAGES	
2. CONTRACT NO.		3. AWARD/ EFFECTIVE DATE		4. SOLICITATION NUMBER NNC12431973P		5. SOLICITATION TYPE <input type="checkbox"/> SEALED BIDS (IFB) <input type="checkbox"/> NEGOTIATED (RFP)	
6. SOLICITATION ISSUE DATE 05/09/2012							
7. ISSUED BY CODE GRC NASA/Glenn Research Center Procurement Division, MS 60-1 21000 Brookpark Road Cleveland OH 44135-3127				8. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED OR <input checked="" type="checkbox"/> SET ASIDE: 100.00% FOR: <input checked="" type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> WOMEN-OWNED SMALL BUSINESS (WOSB) <input type="checkbox"/> HUBZONE SMALL BUSINESS <input type="checkbox"/> EDWOSB <input type="checkbox"/> SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS NAICS: 541712 <input type="checkbox"/> 8(A) SIZE STANDARD: 500			
9. (AGENCY USE)				NO COLLECT CALLS			
10. ITEMS TO BE PURCHASED (BRIEF DESCRIPTION) <input type="checkbox"/> SUPPLIES <input checked="" type="checkbox"/> SERVICES Theoretical Dev. for Advanced Energetic Materials							
11. IF OFFER IS ACCEPTED BY THE GOVERNMENT WITHIN _____ CALENDAR DAYS (60 CALENDAR DAYS UNLESS OFFEROR INSERTS A DIFFERENT PERIOD) FROM THE DATE SET FORTH IN BLOCK 9 ABOVE, THE CONTRACTOR AGREES TO HOLD ITS OFFERED PRICES FIRM FOR THE ITEMS SOLICITED HEREIN AND TO ACCEPT ANY RESULTING CONTRACT SUBJECT TO THE TERMS AND CONDITIONS STATED HEREIN.				12. ADMINISTERED BY CODE GRC NASA/Glenn Research Center Procurement Division, MS 60-1 21000 Brookpark Road Cleveland OH 44135-3127			
13. CONTRACTOR OFFEROR CODE FACILITY CODE				14. PAYMENT WILL BE MADE BY CODE			
TELEPHONE NO. DUNS NO. <input type="checkbox"/> CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER				SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK:			
15. PROMPT PAYMENT DISCOUNT				16. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION <input type="checkbox"/> 10 U.S.C. 2304 <input type="checkbox"/> 41 U.S.C. 253 () ()			
17. ITEM NO.	18. SCHEDULE OF SUPPLIES/SERVICES			19. QUANTITY	20. UNIT	21. UNIT PRICE	22. AMOUNT
	Theoretical Development for Advanced Energetic Materials INCO TERMS 2: DESTINATION Delivery Location Code: GRC NASA/Glenn Research Center 21000 Brookpark Road Cleveland OH 44135-3127 USA Continued ...						
23. ACCOUNTING AND APPROPRIATION DATA						24. TOTAL AWARD AMOUNT (FOR GOVERNMENT USE ONLY)	
25. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN <u>1</u> COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET <input checked="" type="checkbox"/> FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY CONTINUATION SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.					26. AWARD OF CONTRACT: YOUR OFFER ON SOLICITATION NUMBER SHOWN IN BLOCK 4 INCLUDING ANY ADDITIONS <input type="checkbox"/> OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:		
27. SIGNATURE OF OFFEROR/CONTACTOR					28. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)		
NAME AND TITLE OF SIGNER (TYPE OR PRINT)			DATE SIGNED	NAME OF CONTRACTING OFFICER LEAHMARIE Koury		DATE SIGNED	

NO RESPONSE FOR REASONS CHECKED				
<input type="checkbox"/>	CANNOT COMPLY WITH SPECIFICATIONS		<input type="checkbox"/> CANNOT MEET DELIVERY REQUIREMENT	
<input type="checkbox"/>	UNABLE TO IDENTIFY THE ITEM(S)		<input type="checkbox"/> DO NOT REGULARLY MANUFACTURE OR SELL THE TYPE OF ITEMS INVOLVED	
<input type="checkbox"/>	OTHER (Specify)			
<input type="checkbox"/>	WE DO	<input type="checkbox"/>	WE DO NOT, DESIRE TO BE RETAINED ON THE MAILING LIST FOR FUTURE PROCUREMENT OF THE TYPE OF ITEMS INVOLVED	
NAME AND ADDRESS OF FIRM (Include ZIP Code)			SIGNATURE	
			TYPE OR PRINT NAME AND TITLE OF SIGNER	
<div>FROM:</div> <div>TO: GRC NASA/Glenn Research Center Procurement Division, MS 60-1 21000 Brookpark Road Cleveland OH 44135-3127</div> <div>SOLICITATION NO. <u>NNC12431973P</u></div> <div>DATE AND LOCAL TIME _____</div>				AFFIX STAMP HERE

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

NNC12431973P

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OF

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NAME OF OFFEROR OR CONTRACTOR

(A) ITEM NO.	(B) SUPPLIES/SERVICES	(C) QUANTITY	(D) UNIT	(E) UNIT PRICE	(F) AMOUNT
001	<p>Base Period</p> <p>1. Develop theoretical models using quantum mechanics and plasma kinetic equations to assist in understanding and guidance of experimental observations.</p> <p> a. Specific models for solid materials/embedded gas plasma interaction utilizing Vlasov equations and related fully kinetic analysis techniques.</p> <p>2. Develop computational models of theories derived in above task. Models shall be developed in Mathematica and COMSOL, as well as custom quantum codes as necessary to directly achieve quantitative estimates of specific experimental apparatus.</p> <p>3. Provide guidance on experiments to verify model parameters.</p>				
002	<p>Option Period</p> <p>1. Apply models to assist NASA in the optimization of system thermal output.</p>				